



MISSION CATALOG · CB-000018

AGT-DMA6515-2076 HD OUTDOOR THERMAL IMAGING CAMERA FOR VEHICLE MOUNTED

The AGT-DMA6515-2076 is a vehicle-mounted HD outdoor thermal PTZ camera that fuses visible-light and uncooled thermal imaging for long-ra...

Model AGT-DMA6515-2076

KEY BENEFITS

- Wider detection spectrum: integration of high-definition visible light, medium-wave/long-wave thermal imaging, and near-infrared laser, combining active and passive detection with multi-source data fusion to reveal hidden targets in day, night, and all-weather environments.
- Faster invert speed adjustment: rotation speed up to $80^{\circ}/s$ and acceleration up to $100^{\circ}/s^2$, with fast start-stop and smooth operation for quick capture and tracking of moving targets.
- Wider coverage: pan rotation 0° – 360° and tilt rotation -90° ~ $+90^{\circ}$ for dead-angle detection and full-dimension coverage.

DESCRIPTION

Designed for vehicle-mounted deployment, the AGT-DMA6515-2076 integrates a high-definition visible-light camera with an uncooled thermal imager in a rugged U-shape PTZ housing. It delivers long-range detection, recognition, and tracking in total darkness, fog, rain, and other challenging conditions, with optional laser rangefinders, GPS, electronic compass, auto-tracking, and AI-analysis modules for full-dimension situational awareness. The system features a 640×512 uncooled VOx thermal sensor with a 31–155 mm lens and 5× continuous zoom, plus a 2 MP 1/1.8" CMOS visible camera with a 12.5–750 mm 60× optical zoom. Direct-drive rare-earth permanent-magnet motors provide 0.01°–60°/s pan/tilt speed, 100°/s² acceleration, 0.01°–0.02° positioning accuracy, and 360° continuous pan with overhead tracking support. Built for harsh outdoor environments, the camera operates from -40°C to +60°C, meets IP66 protection, and supports ONVIF2.0, Pelco-P/D, TCP/IP, and other network protocols. It offers multi-target auto-tracking, preset cruises, data feedback, power-failure memory, remote upgrades, and seamless integration with radar and back-end software for surveillance, border security, perimeter defense, and low-altitude air-defense applications.

OVERVIEW

- Optional system enhancements include laser rangefinders, GPS, electronic compass, auto-tracking system, and AI-analysis module to achieve all-day, full-dimension monitoring, positioning, tracking, and identification.
- Combines visible camera, thermal imaging camera (cooled/uncooled), and NIR laser illumination multi-sensor modules to provide high-definition imaging, temperature measurement, and target tracking for enhanced surveillance and security.
- Designed for outdoor use, delivering clear imaging in total darkness, fog, and rain for law enforcement, border security, perimeter surveillance, and other demanding applications.

APPLICATIONS

- Anti-UAV control and low-altitude air defense
- Base security monitoring
- Airport monitoring
- Oil field and oil depot security
- Law enforcement, border security, and perimeter surveillance

TECHNICAL SPECIFICATION

THERMAL	
Brightness and Contrast	Adjustable
AGC	Adjustable
Image Digital Zoom	2X/4X
Cross Display	Supported
Correction	Shutter/Background
VISIBLE	
Sensor Type	1/1.8" CMOS
Minimum Illumination	0.0002lux
Imaging Mode	Color to B/W CCD
Megapixels	2 MP
Resolution	1920×1080
ICR Switch	Automatic
Video Compression	H.264/MPEG4/MJPEG
Bitrate	32Kbps~16Mbps
Frame Rate	60Hz/30 FPS
Focal Length	12.5~750mm
Optical Zoom	60X
Focus	Auto
DETECTION	
Vehicle Detection Range	13km

TECHNICAL SPECIFICATION

DETECTION	
Human Detection Range	4.8km
UAV Detection Range (Thermal)	1.2km~1.5km
UAV Detection Range (Daylight)	3km
RECOGNITION	
Vehicle Recognition Range	3.4km
Human Recognition Range	1.3km
PTZ	
Structure	U Shape Structure
Window Design	Two/Three Window design
Pan Range	0~360°
Tilt Range	+90°~-45°
Overhead Tracking	Supported
Pan Speed	0.01°~60°/s
Tilt Speed	0.01°~60°/s
Pan Acceleration	100°/s ²
Tilt Acceleration	100°/s ²
Speed Adaptive	Intelligent sensing shifting and lens focal length speed adaptive
Speed Mode	Highest speed mode settable
Drive Mode	Direct drive with high torque rare earth permanent magnet synchronous motor
Positioning Accuracy	0.01°-0.02°

TECHNICAL SPECIFICATION

PTZ	
Positioning Drive	High-frequency fine-tuning pulse precision motor drive, digital angle measurement sensor servo
Positioning Time	<4s
Presets	≥255
Path Scanning	Preset point cruise, day and night cruise, line sweep, apple skin scan with settable scan speed
Watch Function	Watch preset point, line sweep, cruise, apple skin
Lens Feedback	Lens field of view, magnification, ZOOM/FOCUS value query, return, and positioning
Angle Feedback	Horizontal/vertical angle real-time/query return and positioning
Track Modes	Manual control tracking, radar linkage automatic tracking, front-end module automatic tracking, back-end software automatic tracking
Tracking Video Interface	Visible light/thermal image video switching tracking
Tracking Video Format	Composite video, PAL, NTSC
Multi-Target Detection	Supported
Tracking Algorithms	Multiple tracking algorithms switchable manually/automatically by scenario, with recapture and lock when target temporarily lost
Adaptive Gate	Target size adaptive
ENHANCEMENTS	
Heating Defrost	Oriented industrial window defroster with automatic heating temperature control
Power Failure Memory	Supported
Motor Protection	PT blocking protection
Self-Test / Fault Detection	Power-on self-test, status query, and fault code feedback
Remote Maintenance	Remote restart and remote upgrade

TECHNICAL SPECIFICATION

ENHANCEMENTS	
Optional Modules	Laser range-finders, GPS, electronic compass, auto-tracking system, AI-analysis module
NETWORK	
Network Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP and other network protocols
ONVIF	ONVIF2.0
Pelco Protocols	Pelco-P, Pelco-D and other industry-standard protocols
Baud Rates	2400/4800/9600/19200
Proprietary Protocols	Customizable
POWER	
Input Voltage	AC90V~305V to DC48V
CONSUMPTION	
Rotation Power Consumption	≤120W
Maximum Power Consumption	180W
ENVIRONMENT	
Working Temperature	-40°C ~ +60°C
Storage Temperature	-45°C ~ +70°C
Humidity	<90%
Protection Rating	IP66

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

ORGANIZATION	Volls Global Inc
REGISTERED OFFICE	1207 Delaware Ave #5352
LOCALITY	Wilmington, DE 19806
COUNTRY	United States
POINT OF CONTACT	info@circuitbull.com
BRAND	Circuitbull®
PARENT ORGANIZATION	Volls Global · volls.us

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